

SUMMARYPROCESS FOR THE "IN SITU" MANUFACTURING OF EXPLOSIVE  
MIXTURES

5           The manufacture is carried out in a continuous  
manner simultaneous to the filling of the shot holes, in  
a mixer, preferably a rotating mixer, wherein a water-  
based, non-explosive or low sensitivity matrix, an air  
bubble stabilizing agent, and optionally, an oxidant in  
10 granular form and a combustible material are mixed  
together. The nature of the water-based matrix, together  
with the use of an air bubble stabilizing agent, allows  
the incorporation of air during the mixing, regulating  
the density of the final product and acting on the  
15 variables of the process. On coming out of the mixer, the  
explosive is totally sensitized and has reached its final  
density, allowing for quality control before filling the  
shot hole. The process may be carried out on the  
explosives pumping truck, with compartments for the  
20 transportation of a water-based matrix, an oxidant in  
granular form, a combustible material and a gas bubble  
stabilizing agent.